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**Physical Science The Laws of Motion (Ch.2) Outline**

*Vocabulary*: Define in your own words

Force-

Gravity-

Mass-

Weight-

Friction-

Net force-

Inertia-

Circular motion-

Centripetal force-

Force pair-

Momentum-

**Respond to the following questions/prompts:**

How are contact forces different than non-contact force? Explain. Also, give 2 examples of a contact force and a non-contact force. (6 pts)

Compare and contrast 3 types of friction. (3 pts)

How is mass different than weight? Would your mass change if you went to the moon? What about your weight? Explain. (3 pts)

How is motion related to balanced and unbalanced forces? Explain. (2 pts)

What is Newton's first law of motion? Give an example of a situation that demonstrates Newton's first law of motion. (2 pts)

What is Newton's second law of motion? Give an example of a situation that demonstrates Newton's second law of motion. (2 pts)

What is Newton's third law of motion? Give an example of a situation that demonstrates Newton's third law of motion. (2 pts)

Why don't the forces in a force pair cancel each other? Explain. (2 pts)

What is the law of conservation of momentum? Give an example of a situation that demonstrates the law of conservation of momentum. (2 pts)

***ABOUT THE READING:***

Write three things that you learned about the Laws of Motion*:*

***Make sure to write a full sentence.***

*Example: I learned that a satellite experiences centripetal force as it orbits the Earth.*

*1.*

*2.*

*3.*

**ASSIGNED WORK:**

*Use the internet to research how the weight of a 150 lb person would different on 3 different planets in our solar system. Which planet would you weigh the most on? Which planet would you be the lightest? Explain. \*\* Cite any website/source that you use to find information on gravity on other planets\*\* (6 pts)*